

- create local repository (SC)

```
PS C:\Git\R3dPnd\temp-repos> ls

Directory: C:\Git\R3dPnd\temp-repos

Mode                LastWriteTime         Length Name
----                -
d-----          11/15/2024   3:41 PM                friendly-octo-sniffle

PS C:\Git\R3dPnd\temp-repos> cd .\friendly-octo-sniffle\
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git init
Initialized empty Git repository in C:/Git/R3dPnd/temp-repos/friendly-octo-sniffle/.git/
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>
```

- add a couple files to the repo (SC)

```
Administrator: Windows PowerShell

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> echo "test" > test.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> echo "test1" > test1.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> echo "test2" > test2.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> ls

Directory: C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle

Mode                LastWriteTime         Length Name
----                -
-a-----          11/15/2024   3:43 PM           14 test.txt
-a-----          11/15/2024   3:43 PM           16 test1.txt
-a-----          11/15/2024   3:43 PM           16 test2.txt

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>
```

- create another branch and add a file to that branch (SC) + merge the contains of that branch into master/main branch (SC)

```

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout -b main
Switched to a new branch 'main'
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout -b test
Switched to a new branch 'test'
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git status
On branch test

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test.txt
        test1.txt
        test2.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git add .
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git commit -m "Added test files"
[test (root-commit) 6eb098c] Added test files
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt
 create mode 100644 test1.txt
 create mode 100644 test2.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git status
On branch test

nothing to commit, working tree clean
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git merge main
merge: main - not something we can merge
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git merge origin/main
merge: origin/main - not something we can merge
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout main
error: pathspec 'main' did not match any file(s) known to git
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout -b main
Switched to a new branch 'main'
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git branch
* main
  test
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git merge test
Already up to date.
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout -b test-2
Switched to a new branch 'test-2'
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> ls

Directory: C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle

Mode                LastWriteTime         Length Name
----                -
-a----           11/15/2024   3:43 PM             14 test.txt
-a----           11/15/2024   3:43 PM             16 test1.txt
-a----           11/15/2024   3:43 PM             16 test2.txt

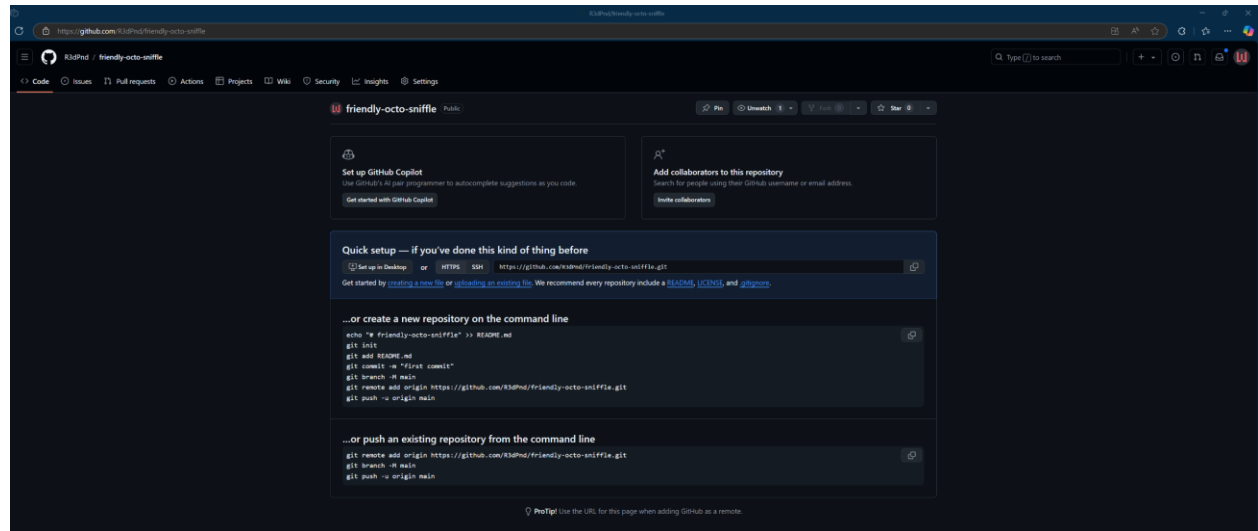
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> echo "test3" > test3.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git status
On branch test-2

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test3.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git add .\test.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git add .\test3.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git commit -m "Added test3"
[test-2 e9a835c] Added test3
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test3.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git checkout main
Switched to branch 'main'
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git merge test-2
Updating 6eb098c..e9a835c
Fast-forward
 test3.txt | Bin 0 -> 16 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test3.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>

```

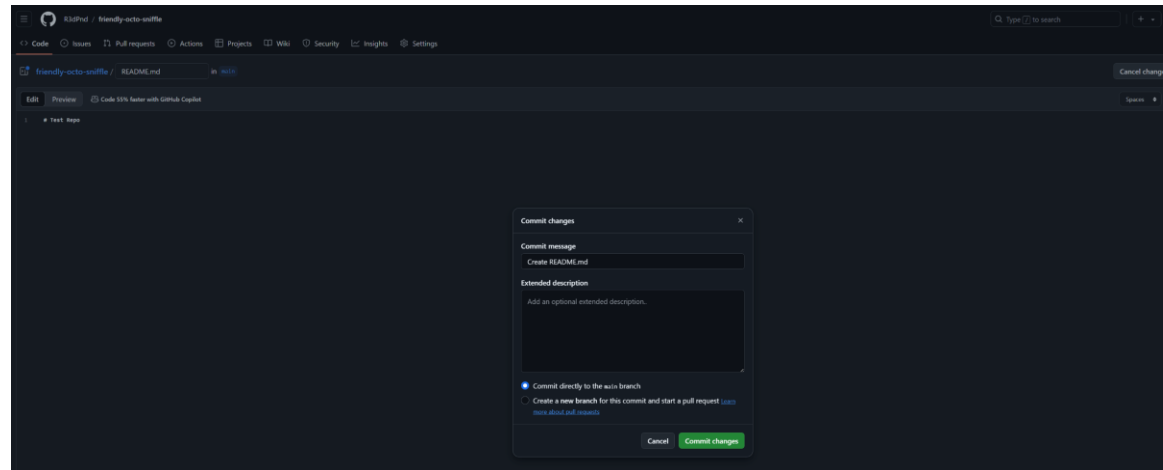
- create an account on GitHub
 - create an empty repo on GitHub (SC)



- copy (push) contents of local repository to empty repository on GitHub (SC)

```
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git remote add origin https://github.com/R3dPnd/friendly-octo-sniffle.git
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git branch -M main
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git push -u origin main
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 555 bytes | 555.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/R3dPnd/friendly-octo-sniffle.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>
```

- add a file to the repo on GitHub then pull that file to your local machine (SC)



```
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 933 bytes | 116.00 KiB/s, done.
From https://github.com/R3dPnd/friendly-octo-sniffle
   e9a835c..ba3041f  main       -> origin/main
Updating e9a835c..ba3041f
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>
```

- add another file to your local repo and push that to GitHub (SC)

```

remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 933 bytes | 116.00 KiB/s, done.
From https://github.com/R3dPnd/friendly-octo-sniffle
   e9a835c..ba3041f  main       -> origin/main
Updating e9a835c..ba3041f
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> ls

Directory: C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle

Mode                LastWriteTime         Length Name
----                -
-a----             11/15/2024   3:51 PM             13 README.md
-a----             11/15/2024   3:43 PM             14 test.txt
-a----             11/15/2024   3:43 PM             16 test1.txt
-a----             11/15/2024   3:43 PM             16 test2.txt
-a----             11/15/2024   3:48 PM             16 test3.txt

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> mkdir local-files

Directory: C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle

Mode                LastWriteTime         Length Name
----                -
d-----             11/15/2024   3:52 PM             local-files

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> cd .\local-files\
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle\local-files> echo "Local test" > local-test.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle\local-files> ls

Directory: C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle\local-files

Mode                LastWriteTime         Length Name
----                -
-a----             11/15/2024   3:52 PM             26 local-test.txt

PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle\local-files> git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  ./

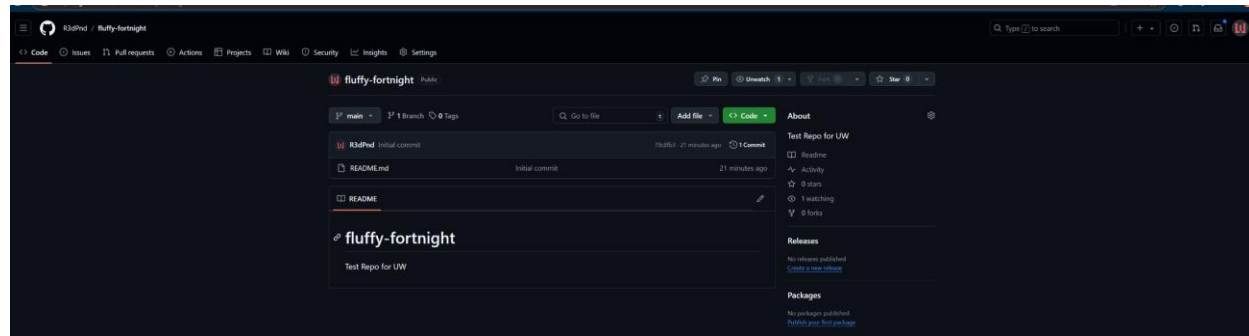
nothing added to commit but untracked files present (use "git add" to track)
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle\local-files> cd ../
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  local-files/

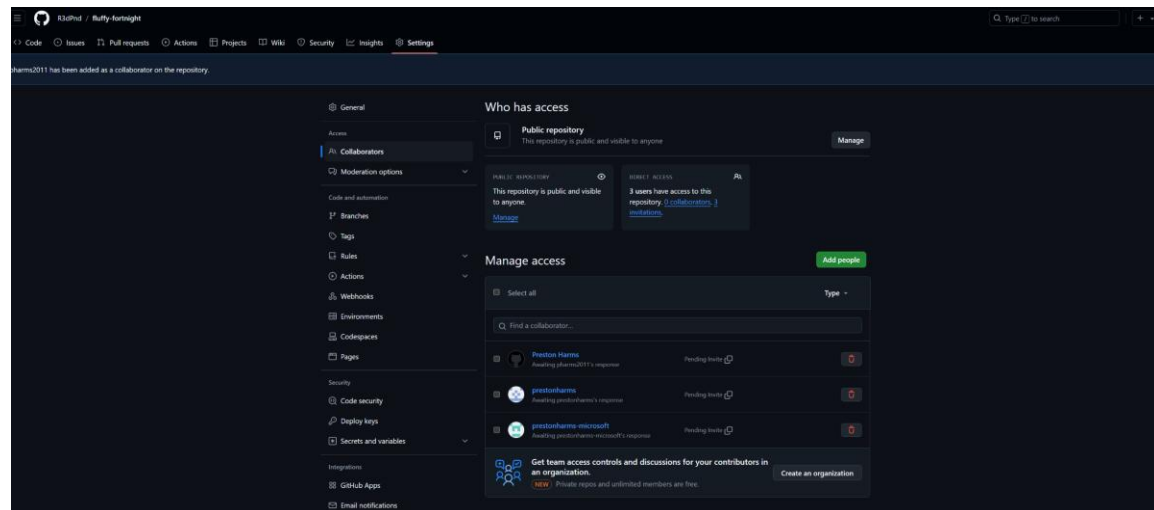
nothing added to commit but untracked files present (use "git add" to track)
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git add .
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git commit -m "Added local chance"
[main b8bc9f1] Added local chance
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 local-files/local-test.txt
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 356 bytes | 356.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/R3dPnd/friendly-octo-sniffle.git
   ba3041f..b8bc9f1  main -> main
PS C:\Git\R3dPnd\temp-repos\friendly-octo-sniffle>

```

- create another repo on GitHub and clone it to your machine (SC)



- invite your team members to one of your repos on GitHub (SC)
 - have them clone the repo to their local machine (SC)



- have them create their own branch in that repo on their local machine then push the new branch up to GitHub (SC)

```
PS C:\Git\pharms2011\fluffy-fortnight> git branch pharm's/test-branch
PS C:\Git\pharms2011\fluffy-fortnight> git checkout pharm's/test-branch
Switched to branch 'pharms/test-branch'
PS C:\Git\pharms2011\fluffy-fortnight> git push
fatal: The current branch pharm's/test-branch has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin pharm's/test-branch

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

PS C:\Git\pharms2011\fluffy-fortnight> git push --set-upstream origin pharm's/test-branch
remote: Permission to R3dPnd/fluffy-fortnight.git denied to prestonharms_microsoft.
fatal: unable to access 'https://github.com/R3dPnd/fluffy-fortnight.git/': The requested URL returned error 403
PS C:\Git\pharms2011\fluffy-fortnight>
```

- have each team member add a file to the master/main branch from their local machine and push that up to GitHub (SC)

```

PS C:\Git\pharms2011\fluffy-fortnight> ls

Directory: C:\Git\pharms2011\fluffy-fortnight

Mode                LastWriteTime         Length Name
----                -
-a-----         11/15/2024   4:01 PM           38 README.md

PS C:\Git\pharms2011\fluffy-fortnight> git pull
Already up to date.
PS C:\Git\pharms2011\fluffy-fortnight> echo "pharms2011" > pharms-2011.t
PS C:\Git\pharms2011\fluffy-fortnight> git add .\pharms-2011.txt
PS C:\Git\pharms2011\fluffy-fortnight> git commit -m "pharms2011"
[main 894a61e] pharms2011
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 pharms-2011.txt
PS C:\Git\pharms2011\fluffy-fortnight> git push
git: 'credential-manager-core' is not a git command. See 'git --help'.
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 308 bytes | 308.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/R3dPnd/fluffy-fortnight.git
 79c8fb3..894a61e  main -> main
PS C:\Git\pharms2011\fluffy-fortnight>

```

- practice push/pull with GitHub repo to make sure everyone stays in synch with the files on GitHub (SC as necessary to show this)